

REMARKS

The claims remaining in the present application are Claims 16-35. Claims 1-15 have been cancelled, without prejudice. Claim 16 has been amended. Claims 24-35 have been added. No new matter has been added as a result of claim amendments.

CLAIM REJECTIONS

35 U.S.C. §103

Claims 1-23 are rejected under 35 U.S.C. §103(a) as being unpatentable over Szeliski et al., U.S. Pat. No. 6,009,190 (hereinafter, Szeliski) in view of Martin et al. U.S. Pat. No. 6,714,206 (hereinafter, Martin). The rejection to Claims 1-15 is respectfully moot in light of the claim cancellations, without prejudice. Claims 16-23 are respectfully traversed for the following reasons.

Currently Amended Independent Claim 16 recites, in part:

mapping a plurality of sub-pixels of said display to corresponding regions of said image, wherein each sub-pixel of said display is mapped to a unique region of said image.

Applicant respectfully asserts that Szeliski fails to teach or suggest these limitations. Szeliski is concerned with a texture map construction method that may map between pixel locations in a texture map and a three-dimensional

coordinate system. However, Szeliski is silent as to the sub-pixel configuration of the display, and hence does not teach or suggest “mapping a plurality of sub-pixels of said display to corresponding regions of said image, wherein each sub-pixel of said display is mapped to a unique region of said image,” as claimed.

Martin does not teach or suggest mapping a plurality of sub-pixels of said display to corresponding regions of said image, wherein each sub-pixel of said display is mapped to a unique region of said image, as claimed. An examination of Figures 2-6 of Martin, indicates that Martin does not map each sub-pixel of said display to a unique region of said image. For example, the same logical pixel 214 in Figure 2, is used for determining color intensities of red, green, and blue sub-pixels. For example, a weighted value of logical pixel 214 is used to determine color intensity for green sub-pixel 210 (along with weighted values of other logical pixels). A weighted value of the very same logical pixel 214 is used to determine the intensity for the red sub-pixel 208 (along with weighted values of other logical pixels depicted in Figs. 3-6). Because the same logical pixel (e.g., 214) is used for determining color intensities of different sub-pixels, the sub-pixels do not map to unique region of said image, as claimed.

Therefore, the combination of Szeliski and Martin does not teach or suggest these claim limitations. For the foregoing reasons, Claim 16 is respectfully believed to be patentable over Szeliski and Martin. Applicants respectfully requests allowance of Claim 16.

Claims 17-23 depend from Claim 16, which is respectfully believed to be allowable for reasons discussed herein. Therefore Claims 17-23 are believed to be allowable by virtue of their dependencies.

NEW CLAIMS

Claims 24-35 have been added. No new matter has been added as a result of the new claims. Support for Claims 24, 28, and 31 may be found in the instant specification at least at page 6, line 11 - page 9, line 12; and page 12, line 14 - page 13, line 25 and Figure 2, Figure 3A, Figure 3B and Figure 4. Support for Claims 26 and 32 may be found in the instant specification at least at page 9, line 24 - page 10, line 8 and in Figure 3B. Support for Claims 27 and 33 may be found in the instant specification at least at page 9, line 8 - page 10, line 8. Support for Claims 29 and 34 may be found in the instant specification at least at page 14, line 3 - page 16, line 17; and at page 10, line 11 - page 12, line 14. Support for Claims 30 and 35 may be found in the instant specification at least at page 6, line 24 - page 7, line 19.

Independent Claim 24 recites, in part:

re-sampling said image in a pattern that matches a sub-pixel configuration of said display in physical location and color to determine intensity values for said sub-pixels.

Applicant respectfully asserts that the prior art fails to teach or suggest the claim limitations of new Independent Claim 24. For example, with respect to Martin, Martin does not teach or suggest re-sampling said image in a *pattern that matches a sub-pixel configuration of said display in physical location and color* to determine intensity values for said sub-pixels, as claimed. An examination of Figures 2-6 of Martin, indicates that Martin does not use an image with a sampling pattern that matches the sub-pixel configuration of said display in physical location and color.

Further, Martin does not teach or suggest, re-sampling to achieve such a pattern. For example, the same logical pixel 214 in Figure 2, is used for determining color intensities of red, green, and blue sub-pixels. For example, a weighted value of logical pixel 214 is used to determine color intensity for green sub-pixel 210 (along with weighted values of other logical pixels). A weighted value of the very same logical pixel 214 is used to determine the intensity for the red sub-pixel 208 (along with weighted values of other logical pixels depicted in Figs. 3-6). However, the logical pixel (e.g., 214) does not match a sub-pixel configuration of said display in physical location and color.”

Further, Martin does not teach re-sampling said image in a pattern that matches a sub-pixel configuration of said display in physical location and color to determine intensity values for said sub-pixels, as claimed.

Further, Applicant respectfully asserts that Szeliski fails to teach or suggest this limitation. Szeliski is concerned with a texture map construction method that may map between pixel locations in a texture map and a three-dimensional coordinate system. However, Szeliski is silent as to the sub-pixel configuration of the display, and hence does not teach or suggest “resampling said image in a pattern that matches a sub-pixel configuration of said display in physical location and color,” as claimed.

New Independent Claim 31 recites in part:

down-sampling said image in a pattern that matches a sub-pixel configuration of said display in physical location and color to determine intensity values for said sub-pixels, wherein said down-sampling comprises discarding color information in a sample point if the color information does not correspond to a display capability of a sub-pixel to which said sample point is mapped.

Claim 31 recites similar limitations as those discussed in the response to Claim 24, and is therefore respectfully believed to be patentable.

Furthermore, Claim 31 recites “discarding color information in a sample point if the color information does not correspond to a display capability of a sub-pixel to which said sample point is mapped.” Applicants respectfully assert that the prior art fails to teach or suggest these claim limitations.

Claims 25-30 and 32-35 are believed to be allowable by virtue of their dependencies.

CONCLUSION

In light of the above listed amendments and remarks, reconsideration of the rejected claims is requested. Based on the arguments and amendments presented above, it is respectfully submitted that Claims 16-35 overcome the rejections of record. Therefore, allowance of Claims 16-35 is respectfully solicited.

Should the Examiner have a question regarding the instant amendment and response, the Applicants invite the Examiner to contact the Applicants' undersigned representative at the below listed telephone number.

Respectfully submitted,
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